

Gilles Ausias

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,127
citations

201575

27
h-index

243529

44
g-index

72
all docs

72
docs citations

72
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Macroscopic modeling of the evolution of fiber orientation during flow. , 2022, , 77-121.		4
2	Automated fibre placement process for a new hybrid material: A numerical tool for predicting an efficient heating law. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106360.	3.8	10
3	Dynamics of gas bubbles in fiber suspensions. International Journal of Multiphase Flow, 2021, 145, 103823.	1.6	0
4	Rigid fiber motion in slightly non-Newtonian viscoelastic fluids. Physics of Fluids, 2021, 33, .	1.6	7
5	Axisymmetric flow simulations of fiber suspensions as described by 3D probability distribution function. Journal of Non-Newtonian Fluid Mechanics, 2020, 284, 104367.	1.0	8
6	Simulation of laser heating distribution for a thermoplastic composite: effects of AFP head parameters. International Journal of Advanced Manufacturing Technology, 2020, 110, 2105-2117.	1.5	16
7	A smoothed particle hydrodynamics study of a non-isothermal and thermally anisotropic fused deposition modeling process for a fiber-filled composite. Physics of Fluids, 2020, 32, .	1.6	16
8	Thermoplastic foaming with thermo-expandable microcapsules: Mathematical modeling and numerical simulation for extrusion process. Chemical Engineering Science, 2020, 227, 115852.	1.9	10
9	Thermo-expandable microcapsule as a blowing agent for producing thermoplastic elastomer vulcanized syntactic foam. AIP Conference Proceedings, 2020, , .	0.3	0
10	Numerical investigation of dilute suspensions of rigid rods in power-law fluids. Journal of Non-Newtonian Fluid Mechanics, 2020, 280, 104280.	1.0	5
11	Modeling and Numerical Simulation of Laminated Thermoplastic Composites Manufactured by Laser-Assisted Automatic Tape Placement. International Polymer Processing, 2020, 35, 471-480.	0.3	0
12	Fiber suspension in 2D nonhomogeneous flow: The effects of flow/fiber coupling for Newtonian and power-law suspending fluids. Journal of Rheology, 2019, 63, 405-418.	1.3	23
13	Numerical simulation and modeling of the die swell for fiber suspension flows. Journal of Non-Newtonian Fluid Mechanics, 2019, 274, 104205.	1.0	26
14	A smoothed particle hydrodynamics simulation of fiber-filled composites in a non-isothermal three-dimensional printing process. Physics of Fluids, 2019, 31, .	1.6	22
15	A model for the stress tensor in dilute suspensions of rigid spheroids in a generalized Newtonian fluid. Journal of Non-Newtonian Fluid Mechanics, 2019, 264, 73-84.	1.0	8
16	Thermal or electrical bulk properties of rod-filled composites. International Journal of Engineering Science, 2018, 133, 219-230.	2.7	9
17	Smoothed particle hydrodynamics (SPH) modeling of fiber orientation in a 3D printing process. Physics of Fluids, 2018, 30, .	1.6	54
18	Numerical evaluation of a single ellipsoid motion in Newtonian and power-law fluids. AIP Conference Proceedings, 2018, , .	0.3	4

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19	Model for thermal degradation of carbon fiber filled poly(ether ether ketone). <i>Polymer Degradation and Stability</i> , 2017, 143, 20-25.	2.7	17
20	Steady-shear rheological properties for suspensions of axisymmetric particles in second-order fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 239, 62-72.	1.0	14
21	Solubility and interfacial tension of thermoplastic polyurethane melt in supercritical carbon dioxide and nitrogen. <i>Journal of Supercritical Fluids</i> , 2017, 122, 52-57.	1.6	30
22	A rheological constitutive model for semiconcentrated rod suspensions in Bingham fluids. <i>Physics of Fluids</i> , 2017, 29, .	1.6	24
23	The effect of shear-thinning behaviour on rod orientation in filled fluids. <i>Journal of Fluid Mechanics</i> , 2016, 798, 350-370.	1.4	24
24	Modeling interactions in carbon nanotube suspensions: Transient shear flow. <i>Journal of Rheology</i> , 2016, 60, 1069-1083.	1.3	8
25	Apparent yield stress in rigid fibre suspensions: the role of attractive colloidal interactions. <i>Journal of Fluid Mechanics</i> , 2016, 802, 611-633.	1.4	13
26	Shear-thinning in concentrated rigid fiber suspensions: Aggregation induced by adhesive interactions. <i>Journal of Rheology</i> , 2016, 60, 1279-1300.	1.3	30
27	Investigation of interfacial fracture behavior on injection molded parts. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
28	Mechanical enhancement of cement-stabilized soil by flax fibre reinforcement and extrusion processing. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 1143-1156.	1.3	29
29	Rheological Modeling of Non-dilute Rod Suspensions. , 2015, , 77-117.		6
30	A novel pull-out device used to study the influence of pressure during processing of cement-based material reinforced with coir. <i>Construction and Building Materials</i> , 2015, 78, 224-233.	3.2	30
31	Rheo-optical response of carbon nanotube suspensions. <i>Journal of Rheology</i> , 2015, 59, 499-524.	1.3	12
32	A Second-Gradient Theory of Dilute Suspensions of Flexible Rods in a Newtonian Fluid. <i>Archives of Computational Methods in Engineering</i> , 2015, 22, 511-527.	6.0	18
33	Stress and strain amplification in a dilute suspension of spherical particles based on a Bird's Carreau model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 221, 95-102.	1.0	23
34	On the multiscale description of dilute suspensions of non-Brownian rigid clusters composed of rods. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 34-44.	1.0	25
35	Direct simulation of concentrated fiber suspensions subjected to bending effects. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 055007.	0.8	17
36	Toward modeling anisotropic yield stress and consistency induced by fiber in fiber-reinforced viscoplastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 220, 69-76.	1.0	19

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37	Enhanced dispersion of cellulose nanocrystals in melt-processed polylactide-based nanocomposites. <i>Cellulose</i> , 2015, 22, 483-498.	2.4	110
38	Rheological modeling of carbon nanotube suspensions with rod-rod interactions. <i>AIChE Journal</i> , 2014, 60, 1476-1487.	1.8	24
39	On the use of interaction tensors to describe and predict rod interactions in rod suspensions. <i>Rheologica Acta</i> , 2014, 53, 445-456.	1.1	26
40	Characterisation and micromechanical modelling of the elasto-viscoplastic behavior of thermoplastic elastomers. <i>Mechanics of Materials</i> , 2014, 71, 114-125.	1.7	15
41	Design of clay/cement mixtures for extruded building products. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 999-1010.	1.3	30
42	Prediction of extrusion load and liquid phase filtration during ram extrusion of high solid volume fraction pastes. <i>Powder Technology</i> , 2013, 249, 258-268.	2.1	57
43	Effect of flax fibres individualisation on tensile failure of flax/epoxy unidirectional composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 51, 62-70.	3.8	167
44	Observation of the structure of a composite polypropylene/flax and damage mechanisms under stress. <i>Industrial Crops and Products</i> , 2013, 43, 225-236.	2.5	79
45	Study of the fibre morphology stability in polypropylene-flax composites. <i>Polymer Degradation and Stability</i> , 2013, 98, 1216-1224.	2.7	58
46	Structure, mechanical properties and modelling of polypropylene for different degrees of crystallinity. <i>Polymer</i> , 2012, 53, 5873-5884.	1.8	45
47	Modelling of stress and strain amplification effects in filled polymer melts. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 171-172, 8-16.	1.0	49
48	Effect of flow history on linear viscoelastic properties and the evolution of the structure of multiwalled carbon nanotube suspensions in an epoxy. <i>Journal of Rheology</i> , 2011, 55, 153-175.	1.3	38
49	Dissipative particle dynamics simulations for fibre suspensions in newtonian and viscoelastic fluids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1593-1602.	3.4	9
50	Investigation of the rheological properties of short glass fiber-filled polypropylene in extensional flow. <i>Rheologica Acta</i> , 2009, 48, 59-72.	1.1	35
51	Modeling fiber interactions in semiconcentrated fiber suspensions. <i>Journal of Rheology</i> , 2009, 53, 49-72.	1.3	84
52	Rheological behavior of fiber-filled polymers under large amplitude oscillatory shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 151, 89-100.	1.0	30
53	Numerical solution of the Fokker-Planck equation for fiber suspensions: Application to the Folgar-Tucker-Lipscomb model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 20-29.	1.0	34
54	Apport des essais d'indentation pour la modélisation du comportement mécanique d'un polymère semi-cristallin. <i>Materiaux Et Techniques</i> , 2008, 96, 95-103.	0.3	1

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55	Micro-mechanical model of TPE made of polypropylene and rubber waste. <i>Polymer</i> , 2007, 48, 3367-3376.	1.8	27
56	Stress overshoots of organoclay nanocomposites in transient shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 141, 167-179.	1.0	108
57	Direct simulation for concentrated fibre suspensions in transient and steady state shear flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 135, 46-57.	1.0	47
58	Rheological properties of long glass fiber filled polypropylene. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 125, 25-34.	1.0	62
59	Shear and extensional properties of short glass fiber reinforced polypropylene. <i>Polymer Composites</i> , 2005, 26, 247-264.	2.3	59
60	Comportement rhéologique dans des écoulements transitoires en cisaillement simple des polymères fortement chargés en fibres courtes. <i>Mécanique Et Industries</i> , 2004, 5, 419-428.	0.2	0
61	COMPARISON OF RHEOLOGICAL PROPERTIES OF FIBER SUSPENSIONS WITH MODEL PREDICTIONS. <i>Journal of Polymer Engineering</i> , 2004, 24, .	0.6	27
62	Rheological properties of short fiber filled polypropylene in transient shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004, 123, 19-32.	1.0	111
63	Rheological properties of short fiber model suspensions. <i>Journal of Rheology</i> , 2004, 48, 1023-1048.	1.3	96
64	Optimization of the tube-extrusion die for short-fiber-filled polymers. <i>Composites Science and Technology</i> , 1996, 56, 719-724.	3.8	11
65	Optimization of the Extrusion Process for Glass-Fiber-Reinforced Tubes. <i>Journal of Thermoplastic Composite Materials</i> , 1995, 8, 435-448.	2.6	4
66	Flow and Fiber Orientation Calculations in Reinforced Thermoplastic Extruded Tubes. <i>International Polymer Processing</i> , 1994, 9, 51-59.	0.3	30
67	Rheology of short glass fiber reinforced polypropylene. <i>Journal of Rheology</i> , 1992, 36, 525-542.	1.3	73
68	FIBER ORIENTATION IN EXTRUDED TUBES AND INJECTION MOLDED DISK WITH SHORT FIBER REINFORCED THERMOPLASTICS. , 1992, , 835-837.		0
69	Tensile Characteristics of Coconut Fibers Reinforced Mortar Composites. <i>Advanced Materials Research</i> , 0, 651, 269-273.	0.3	7
70	Effect of Coconut Fibers Addition to early Age Unfired Soil Lime Bricks Strength. <i>Key Engineering Materials</i> , 0, 594-595, 471-476.	0.4	5
71	Effect of Fibers Content on the Tensile Properties of Coconut Fibers Reinforced Cement Mortar Composites. <i>Advanced Materials Research</i> , 0, 742, 92-97.	0.3	5